

## RAW SEQUENCE LISTING

PATENT APPLICATION: US 09/820,053A

DATE: 06/14/2001

TIME: 13:22:51

Input Set : A:\Helx027a.txt

Output Set: N:\CRF3\06142001\I820053A.raw

3 <110> APPLICANT: Owen, Donald R.  
 5 <120> TITLE OF INVENTION: SHORT BIOACTIVE PEPTIDES  
 7 <130> FILE REFERENCE: HELX027  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/820,053A  
 C--> 10 <141> CURRENT FILING DATE: 2001-03-28  
 12 <160> NUMBER OF SEQ ID NOS: 165  
 14 <170> SOFTWARE: PatentIn Ver. 2.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 23  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: ARTIFICIAL SEQUENCE  
 21 <220> FEATURE:  
 22 <223> OTHER INFORMATION: SYNTHETIC SEQUENCE  
 24 <400> SEQUENCE: 1  
 25 Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys  
 26 1 5 10 15  
 28 Lys Ala Leu Lys Lys Ala Leu  
 29 20  
 32 <210> SEQ ID NO: 2  
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 40 <220> FEATURE:  
 41 <221> NAME/KEY: MOD\_RES  
 42 <222> LOCATION: (23)  
 43 <223> OTHER INFORMATION: AMIDATION  
 45 <400> SEQUENCE: 2  
 46 Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys  
 47 1 5 10 15  
 49 Lys Ala Leu Lys Lys Ala Leu  
 50 20  
 53 <210> SEQ ID NO: 3  
 54 <211> LENGTH: 38  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: ARTIFICIAL SEQUENCE  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: SYNTHETIC SEQUENCE  
 61 <400> SEQUENCE: 3  
 62 Met Pro Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Val Gly Arg Asn  
 63 1 5 10 15  
 65 Ile Arg Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly  
 66 20 25 30  
 68 Glu Ala Lys Ala Leu Gly  
 69 35  
 72 <210> SEQ ID NO: 4

ENTERED

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80 <216> FEATURE:
81 <217> NAME/KEY: MOD_RES
82 <218> LOCATION: (23)
83 <219> OTHER INFORMATION: AMIDATION
85 <400> SEQUENCE: 4
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89 Ala Lys Leu Ala Leu Ala Leu
90      20
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103 <218> LOCATION: (38)
104 <219> OTHER INFORMATION: AMIDATION
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113 Glu Ala Lys Ala Leu Gly
114      35
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139 <215> OTHER INFORMATION: SYNTHETIC SEQUENCE
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143 <222> LOCATION: (23)
144 <223> OTHER INFORMATION: AMIDATION
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165 <223> OTHER INFORMATION: AMIDATION
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171 Lys Leu Ala Lys Lys Ala Leu
172      20
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192 Lys Leu Ala Lys Lys Ala Leu
193      20
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205 <221> NAME/KEY: MOD_RES
206 <222> LOCATION: (23)
207 <223> OTHER INFORMATION: AMIDATION
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210 Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Ala Lys Lys Leu Lys
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213 Lys Leu Ala Lys Lys Ala Leu
214      20
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227 <222> LOCATION: (1)
228 <223> OTHER INFORMATION: AMIDATION
230 <400> SEQUENCE: 11
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232      1          5          10          15
234 Ala Leu Lys Ala Leu
235      20
238 <210> SEQ ID NO: 12
239 <211> LENGTH: 19
240 <212> TYPE: PR1
241 <213> ORGANISM: ARTIFICIAL SEQUENCE
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246 <220> FEATURE:
247 <221> NAME/KEY: MOD_RES
248 <222> LOCATION: (19)
249 <223> OTHER INFORMATION: AMIDATION
251 <400> SEQUENCE: 12
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253      1          5          10          15
255 Lys Ala Leu
259 <210> SEQ ID NO: 13
260 <211> LENGTH: 19
261 <212> TYPE: PR1
262 <213> ORGANISM: ARTIFICIAL SEQUENCE
264 <220> FEATURE:
265 <223> OTHER INFORMATION: SYNTHETIC SEQUENCE
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271 Lys Ala Leu
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276 <211> LENGTH: 19
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283 <199> SEQUENCE: 14
284 Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Leu Ala
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287 Leu Ala Leu
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299 <220> FEATURE:
300 <221> NAME/KEY: MOD_RES
301 <222> LOCATION: (23)
302 <223> OTHER INFORMATION: AMIDATION
304 <400> SEQUENCE: 15
305 Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
306      1      5      10      15
308 Lys Ala Leu Lys Lys Ala Leu
309      20
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315 <213> ORGANISM: ARTIFICIAL SEQUENCE
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321 <221> NAME/KEY: MOD_RES
322 <222> LOCATION: (16)
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332 <212> TYPE: PRT
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338 <220> FEATURE:
339 <221> NAME/KEY: MOD_RES
340 <222> LOCATION: (17)
341 <223> OTHER INFORMATION: AMIDATION
343 <400> SEQUENCE: 17
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345      1      5      10      15
347 Leu
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352 <211> LENGTH: 19
353 <212> TYPE: PRT

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

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Input Set : A:\Helx027a.txt

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L:9 M:270 C: Current Application Number differs, Replaced Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19